

Technical Description (Amended1)

The Boeing Company

Submitted 3/11/2021
Allen S Lindsay, SR
Frequency Manager
Global Spectrum Management (GSM) MC: 1K-105
P.O. Box 3707, Seattle WA 98124-2207
425-237-9168

JUSTIFICATION:

The Boeing Company is requesting a Special Temporary Authorization (STA) to support satellite antenna development. Boeing will conduct testing using Echostar – 9 satellite, GetSAT MicroSAT Ka Antenna system and the AvL Technologies 2.4 meter Ka Antenna System. Testing will be conducted fixed ground at in Bingen, WA, and Hood River. Testing will be conducted fixed and mobile at Boardman, OR, and Pendleton, OR.

OBJECTIVE & TEST DESCRIPTION:

The test requires two downlink frequencies that will be coordinated with Echostar (Echostar-9) call sign, S2179 and two uplink frequencies for the terminals under test.

START DATE: 3/19/2021

STOP DATE: 9/19/2021

TERMINALS:

| | |
|-----------------------|--|
| Manufacture: | AvL Technologies |
| Model: | 2.4mKa Antenna System |
| Antenna Specs: | AVL max power input: 12.6W, Antenna gain 55.2 dBi |
| ERP: | 2.57W |
| Manufacture: | GetSAT |
| Model: | Ka MicroSAT Antenna System |
| Antenna Specs: | max power input: 19.1W Antenna gain 34.31 dBi antenna size 11.8in x 5.7in |
| ERP: | 31419W |
| Frequencies: | 29.805 GHz; |
| Emission: | 600K00G7D, 10M00G7D, 20M00G7D |

LOCATIONS:

| | |
|-----------------------|---|
| Location: | 118 East Columbia River Way, Bingen, WA 98605 |
| Lat/Lon | 45-42-23N; 121-27-02W, Radius: 5Km |
| Station Class: | FX |

| | |
|-----------------------|-------------------------------------|
| Location: | 902 Wasco St., Hood River, OR 97818 |
| Lat/Lon | 45-42-41N; 121-31-11W, Radius: 5Km |
| Station Class: | FX |

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Location: Tower Road, Boardman, OR 97818
Lat/Lon 45-44-54N;;119-47-38W
Station Class: MO/FX; 15000ft AGL, Radius: 50Km

Location: Pendleton, OR 97801
Lat/Lon 45-41-21N; 118-50-32W
Station Class: MO/FX; 15000ft AGL, Radius: 50Km

Point of Communication: Echostar-9

STOP BUZZER POINT OF CONTACT:

Insitu OAC: 509-637-4691